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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/602,349	06/23/2003	Corey Gee	42P14357	1820		
8791	7590 03/06/2006		EXAM	EXAMINER		
	SOKOLOFF TAYLOF	TREAT, W	TREAT, WILLIAM M			
12400 WILS SEVENTH	SHIRE BOULEVARD FLOOR		ART UNIT	PAPER NUMBER		
LOS ANGE	LES, CA 90025-1030		2181			
				DATE MAILED: 03/06/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary    Examiner   Art Unit   2181			Applicati	on No.	Applicant(s)	_					
## William M. Troat ## Troat ## 2181  ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address  ## Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  ## Eatherwise of time may be available under the provided of or 50 °CFR 1-300°L, in no event, however, may a reply be simely life.  ## If NO period for reply is specified above, the maximum statutory period will apply and vill expire SIX (8) MONTHS from the malling date of this communication.  ## Failube for reply within the set or received period for reply is specified above, the maximum statutory period will expire SIX (8) MONTHS from the malling date of this communication.  ## Failube for reply is specified above, the maximum statutory period will expire SIX (8) MONTHS from the malling date of this communication.  ## Failube for reply is specified above, the maximum statutory period will expire six (8) MONTHS from the malling date of this communication, and provided the provided and set of the communication, and set of the communication and set of the communication.  ### Period for Reply ## In the set of the communication is non-final.  ### Claim(s) ## Set of CRE 1.74(1) ## Period 1			10/602,3	49	GEE ET AL.						
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WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Estanciano from may be anabising date of this communications of 37 CFR 1.13(a). In an event, however, may a reply be timely field after SR (6) MONTHS from the mailing date of this communication. Fairs to reply within the set or extended period for reply with by fairs of the communication. Fairs to reply within the set or extended period for reply with by fairs of the communication. Pairs to reply with the set or extended period for reply with by fairs of the communication, even if simely filed, may reduce any seared period with the communication (s) filed on 23 June 2003.  Status  1) □ Responsive to communication(s) filed on 23 June 2003.  2a □ This action is FINAL.  2b □ This action is FINAL.  2b □ This action is Final.  2c) □ This action is final.  2d) □ This action is final.  2e) □ This action is final.  2ft is faire pending in the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) □ Claim(s) 1-54 is/are pending in the application.  4a) Of the above claim(s) 17-54 is/are withdrawn from consideration.  5] □ Claim(s) 1-54 is/are allowed.  6) □ Claim(s) 1-57-13.15 and 16 is/are rejected.  7) □ Claim(s) 1-57-13.15 and 16 is/are rejected.  7) □ Claim(s) 2-15 and 14 is/are objected to.  8] □ Claim(s) 3-15 and 14 is/are objected to.  8] □ Claim(s) 6-3 and 14 is/are objected to.  8] □ The specification is objected to by the Examiner.  10) □ The drawing(s) filed on											
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Paper No(s)/Mail Date <u>10/19/2005</u> . 6) Other:	1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948 lation Disclosure Statement(s) (PTO-1449 or PTO/SI		Paper No(s)/Mail Dat 5) Notice of Informal Pa	e						

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- 1. Claims 1-54 are presented for examination.
- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-16, drawn to a method and apparatus for performing a PADD instruction, classified in class 708, subclass 670.
  - Claims 17-26, drawn to a method and apparatus for performing an SMAD instruction, classified in class 708, subclass 709.
  - III. Claims 27-43, drawn to a method and apparatus giving the details of a packet addition forming three result data fields, classified in class 712, subclass 221.
  - IV. Claims 44-45, drawn to method and apparatus generating a carry and a save during a modulo 2n or 2n-1 addition, classified in class 708, subclass 708.
- 3. Inventions I, II, III and IV are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention I has separate utility such as a method and apparatus for performing a PADD instruction in a system without the particular method and apparatus for performing the SMAD instruction of Invention II or the particular method and apparatus for packet addition which forms three result data fields of Invention III or the particular method and apparatus for generating a carry and a save during a modulo 2n or 2n-1 addition of Invention IV. Invention II has separate utility such as a method and apparatus for performing an SMAD instruction in a system without the particular method and apparatus for

performing the PADD instruction of Invention I or the particular method and apparatus for packet addition which forms three result data fields of Invention III or the particular method and apparatus for generating a carry and a save during a modulo 2n or 2n-1 addition of Invention IV. Invention III has separate utility such as a method and apparatus for packet addition which forms three result data fields without the particular method and apparatus for performing the PADD instruction of Invention I or the particular method and apparatus for performing the SMAD instruction of Invention III or the particular method and apparatus for generating a carry and a save during a modulo 2n or 2n-1 addition of Invention IV. Invention IV has separate utility such as a method and apparatus for generating a carry and a save during a modulo 2n or 2n-1 addition without the particular method and apparatus for performing the PADD instruction of Invention I or the particular method and apparatus for performing the SMAD instruction of Invention II or the particular method and apparatus for performing the SMAD instruction of Invention II or the particular method and apparatus for packet addition which forms three result data fields of Invention III. See MPEP § 806.05(d).

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 5. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Groups II, III, and IV, restriction for examination purposes as indicated is proper.
- 6. During a telephone conversation with William W. Schaal on 2/3/2006 a provisional election was made without traverse to prosecute the invention of Group I,

claims 1-16. Affirmation of this election must be made by applicant in replying to this Office action. Claims 17-54 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 9. Claims 1-5, 7-13, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wagner (C Compiler...) in view of Harriman, Jr. (Patent No. 5,838,960).
- 10. Wagner taught the invention of exemplary claim 1 including a method comprising: receiving a PADD instruction comprising a result register identifier to identify a result register, a first source register identifier to identify a first source register storing a first operand, and an operand identifier to identify a second operand, and in

response to receiving said PADD instruction performing a packet addition of the first and second operands to generate a result, and to subsequently store the result in said result register (TARGET ARCHITECTURE, pages 1303 and 1304 and BIT-PACKET PROCESSING IN C: A. Use of Compiler-Known Functions, right-hand column on page 1304).

- 11. Note that Wagner taught a system where the result register and the first source register are the same, which is not precluded by applicants' claim language. Were applicants to specify that their PADD instruction has three distinct operands, this would not represent patentable differentiation in the examiner's judgment. There are patents in the US patents database teaching three operand instructions which were filed over a quarter of a century ago. One of ordinary skill realizes having a two operand instruction versus a three operand instruction represents a design trade-off. A two operand instruction can, typically, be stored in less space than the three-operand instruction and can require less complex circuitry to implement but affords less flexibility in terms of choice of source and destination registers and may subsequently require another instruction to move the result to a desired location. One of ordinary skill such as applicants understands such design trade-offs as does applicants' assignee which designs and creates computer chips as well as the computer's instruction set.
- 12. However, Wagner did not teach "causing a dedicated PADD logic device" to perform a packet addition of the first and second operands to generate a result.

  However, Harriman, Jr. taught that "as the bandwidth of network transmission mediums continuously increases, the speed and efficiency of the switching hubs should be

increased to avoid slowing down the transmission of the data along the networks" (col. 1, lines 41-44), and that one way to increase the speed and efficiency of a switching hub is through the use add instructions implemented on an add circuit of a pipeline processor implemented on a multitasking computer system architecture supporting multiple independent processors dedicated to processing data packets (col. 1, lines 44-46; col. 2, lines 6-25; and col. 3, lines 18-36). One of ordinary skill in the art would have been motivated to combine Harriman, Jr.'s concept of a special add circuit for use in a system for processing data packets with Wagner's teaching of a packet add instruction to increase the speed and efficiency of processing such data as taught by Harriman, Jr. supra.

- 13. As to claim 2, Wagner taught the method of claim 1, wherein said operand identifier identifies a second source register storing said second operand (TARGET ARCHITECTURE, p. 1304, first sentence of the left-hand column).
- 14. As to claim 3, Harriman, Jr. taught the method of claim 1 wherein said operand identifier identities an immediate value to use as said second operand (col. 3, lines 18-25). One of ordinary skill in the art would have been motivated to combine this old and very well-known instruction technique with the teachings of Wagner to provide greater flexibility for his packet add instruction.
- 15. As to claims 4 and 5, Wagner taught the method of claim 1, wherein said PADD instruction further comprises a start identifier to identify the start bit of said first operand and a stop identifier to identify the stop bit of said first operand (TARGET ARCHITECTURE, pages 1303 and 1304). The offset plus the bit width identify the

location of the start bit and stop bit for the data in the first operand. This would be the functional equivalent of what applicants are claiming.

- 16. As to claim 7, Wagner taught the method of claim 1, wherein said PADD instruction includes a data field parameter to indicate that only certain bits of the content stored in said first register serves as said first operand (TARGET ARCHITECTURE, pages 1303 and 1304).
- 17. As to claim 8, Harriman, Jr. taught the method of claim 1, wherein said PADD instruction includes an immediate value parameter to indicate that an immediate value serves as said second operand (col. 3, lines 18-25). One of ordinary skill in the art would have been motivated to combine this old and very well-known instruction technique with the teachings of Wagner to provide greater flexibility for his packet add instruction.
- 18. As to claims 9-13 and 15-16, they fail to teach or define over rejected claims 1-5 and 7-8.
- 19. Claims 6 and 14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 20. Any inquiry concerning this communication should be directed to William M.

  Treat at telephone number (571) 272-4175. The examiner works at home on

  Wednesdays but may normally be reached on Wednesdays by leaving a voice message using his office phone number. The examiner also works a flexible schedule but may

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normally be reached in the afternoon and evening on three of the four remaining

weekdays.

21. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

WE-T

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WILLIAM M. TREAT PRIMARY EXAMINER